

AMENDMENTS TO THE CLAIMS

1-8. (Canceled)

9. **(Currently amended)** A polynucleotide encoding a secretory or membrane-binding chimeric protein composed of an energy-generating protein and an energy-receiving protein linked to one another wherein energy transfer can arise between the energy-generating protein and the energy-receiving protein~~the secretory or membrane-binding chimeric protein according to claim 1~~, or a complementary chain thereof, wherein the chimeric protein is composed of *Vargula* luciferase or *Cypridina* luciferase and YFP.

10. **(Original)** A vector comprising the polynucleotide according to claim 9.

11. **(Original)** A transformant transformed with the vector according to claim 10.

12. **(Original)** A method for producing a secretory or membrane-binding chimeric protein including a step of culturing the transformant according to claim 11 in a medium, and a step of collecting the secretory or membrane-binding chimeric protein from the medium.

13-16. (Canceled)

17. **(New)** The polynucleotide according to claim 9, wherein a monitor peptide is introduced between luciferase and YFP or inside the luciferase or inside the YFP so as to retain an energy-generating property or an energy-receiving property, and the energy transfer is inhibited by cleaving the monitor peptide.

18. **(New)** A polynucleotide encoding the chimeric protein having an amino acid sequence represented by SEQ ID NO: 1.